UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,471	11/06/2001	Syuji Otsuka	MES1P058	7233

22434 7590 08/06/2004

BEYER WEAVER & THOMAS LLP
P.O. BOX 778
BERKELEY, CA 94704-0778

EXAMINER	
ELAMIN, ABDELMONIEM I	

ART UNIT	PAPER NUMBER
2116	

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/005,471	OTSUKA, SYUJI
	Examiner	Art Unit
	A Elamin	2116

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *06 November 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-9* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-9* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims *1-9* are rejected under 35 U.S.C. 102(e) as being anticipated by Takai, US. Pat. No. 6,373,307.

3. Claims *1, 3-4, 6 and 8-9*, Takai teaches a pulse signal generating circuit for generating a specific pulse signal from a clock signal having a fixed cycle [*abstract, Figs 1 and 2*], comprising:

an edge detector [*edge detector 11 of Fig. 1*] configured to detect rising and trailing edges of the clock signal [*CLK signal 1 of Fig. 1*];

a first delay signal generator, including at least one first delay circuit having a first delay value, the first delay signal generator being configured to generate at least one first delay signal whose first delayed edge is delayed by the first delay value in relation to the rising edge of the clock signal [*first delay circuit 112 of Fig. 1, abstract, col. 27, lines 11-13*];

a second delay signal generator including at least one second delay circuit having a second delay value, the second delay signal generator being configured to generate at

least one second delay signal whose second delayed edge is delayed by the second delay value in relation to the trailing edge of the clock signal [*second delay circuit 212 of Fig. 1, abstract, col. 27, lines 21-24*]; and

a logic unit configured to generate a pulse signal by performing logic operations on the first and second delay signals [*Fig. 1, abstract, col. 14, lines 55-65*].

4. Claims *2 and 7*, Takai teaches a cycle duration of the pulse signal is set equal to a cycle duration of the clock signal [*col.27, lines 14-16*].

5. Claim *5*, Takai teaches the edge detector comprises:

a first D flip-flop [*Flip-Flop 12a of Fig. 2, col. 14, line 65 thru col. 15, line 23*] having a first clock input terminal, a first D input terminal, a first non-inverted output terminal, and a first inverted output terminal, the clock signal being supplied to the first clock input terminal, an inverted output from the first inverted output terminal being fed back to the first D input terminal [*Fig. 2*]; and

a second flip-flop [*Flip-Flop 12b of Fig. 2, col. 14, line 65 thru col. 15, line 23*] having a second clock input terminal, a second D input terminal, second non-inverted output terminal, and a second inverted output terminal, an inverted signal of the clock signal being supplied to the second clock input terminal, an output from the first non-inverted output terminal of the first D flip-flop being supplied to the second D input terminal [*Fig. 2*];

wherein an output from the first output terminal of the first D flip-flop is supplied to the first delay circuit, and an output from the second output terminal of the second D flip-flop is supplied to the second delay circuit [*Figs. 1-2*].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (703)305-3804. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (703) 308-1159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A Elamin
Primary Examiner
Art Unit 2116

August 3, 2004

A. ELAMIN
PRIMARY EXAMINER